

# Fluid Milk Manufacturing: 2002

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## 2002 Economic Census

*Manufacturing*

Industry Series



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U.S. Department of Commerce  
Economics and Statistics Administration  
U.S. CENSUS BUREAU



**Table 1. Historical Statistics for the Industry: 2002 and Earlier Years**

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year <sup>1</sup>	Com- panies <sup>2</sup>	All estab- lish- ments <sup>3</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
			Number <sup>4</sup>	Payroll (\$1,000)	Number <sup>4</sup>	Hours (1,000)	Wages (\$1,000)				
311511, Fluid milk manufacturing . . . . . 2002..	315	524	55 354	2 158 118	30 136	63 848	1 076 812	7 935 299	16 311 825	24 181 778	584 277
2001..	N	N	57 222	2 116 153	30 580	65 640	1 047 786	8 229 673	16 667 720	24 893 015	692 226
2000..	N	N	57 862	2 062 439	30 278	64 379	1 019 787	7 787 221	16 005 487	23 764 079	542 800
1999..	N	N	57 815	1 974 296	30 582	65 394	972 108	7 244 851	16 264 146	23 440 007	556 195
1998..	N	N	57 413	1 907 404	30 290	65 585	945 398	6 715 279	16 542 485	23 247 151	474 903
1997..	402	608	57 638	1 897 820	30 017	64 775	931 111	6 284 684	15 718 803	21 995 148	423 487

<sup>1</sup>Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

<sup>2</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>3</sup>Includes establishments with payroll at any time during the year.

<sup>4</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 2. Industry Statistics for Selected States: 2002**

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E <sup>1</sup>	All establishments <sup>2</sup>		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
<b>311511, Fluid milk manufacturing</b>												
United States .....	1	524	371	55 354	2 158 118	30 136	63 848	1 076 812	7 935 299	16 311 825	24 181 778	584 277
California .....	1	56	39	6 944	313 741	3 788	7 818	152 283	1 098 976	2 848 541	3 950 768	86 650
Florida .....	1	9	9	1 103	45 895	690	1 502	26 534	182 929	400 896	582 994	14 102
Illinois .....	—	19	14	1 440	61 342	968	2 084	38 733	187 652	513 913	702 761	20 201
Iowa .....	—	11	9	1 274	42 260	648	1 511	22 417	161 117	375 332	535 324	14 764
Kentucky .....	—	8	8	1 526	57 527	846	1 880	28 623	161 625	405 072	571 003	9 262
Maine .....	—	7	3	552	21 952	413	882	15 967	56 757	123 681	180 279	7 462
Michigan .....	—	16	11	1 909	79 748	1 110	2 312	41 079	273 728	520 137	796 453	13 443
Minnesota .....	—	34	15	1 631	65 304	1 016	2 181	38 296	261 001	682 432	945 441	13 374
New Jersey .....	1	10	7	1 527	74 334	864	1 993	40 497	283 450	496 574	782 980	15 349
New York .....	—	37	26	2 890	114 374	1 892	3 977	71 474	429 247	850 859	1 278 025	33 089
North Carolina .....	4	9	8	1 029	31 199	635	1 303	15 279	175 077	438 177	616 616	15 672
Ohio .....	—	24	17	2 495	96 919	1 464	3 031	52 272	372 026	648 093	1 020 735	22 604
Oregon .....	2	13	12	1 010	38 852	579	1 175	20 370	168 742	324 775	494 079	10 812
Pennsylvania .....	—	40	23	3 750	158 428	1 791	3 896	68 130	401 002	882 359	1 282 973	31 085
Tennessee .....	1	9	7	1 157	44 138	575	1 292	21 039	153 917	307 920	461 642	10 401
Texas .....	1	26	25	4 832	176 075	2 077	4 290	66 941	817 813	1 223 159	2 045 537	44 236
Utah .....	—	8	5	793	29 506	482	1 098	16 303	124 034	196 086	317 089	26 926
Wisconsin .....	—	17	10	1 028	40 771	660	1 407	25 066	219 991	482 146	700 502	12 195

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

# Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
311511, Fluid milk manufacturing	
Companies <sup>1</sup> .....	number.. 315
All establishments <sup>2</sup> .....	number.. 524
Establishments with 1 to 19 employees .....	number.. 153
Establishments with 20 to 99 employees .....	number.. 158
Establishments with 100 employees or more .....	number.. 213
All employees <sup>3</sup> .....	number.. 55 354
Total compensation .....	\$1,000.. 2 769 875
Annual payroll .....	\$1,000.. 2 158 118
Total fringe benefits .....	\$1,000.. 611 757
Production workers, average for year .....	number.. 30 136
Production workers on March 12 .....	number.. 30 065
Production workers on May 12 .....	number.. 30 063
Production workers on August 12 .....	number.. 30 153
Production workers on November 12 .....	number.. 30 127
Production worker hours .....	1,000.. 63 848
Production worker wages .....	\$1,000.. 1 076 812
Total cost of materials .....	\$1,000.. 16 311 825
Materials, parts, containers, packaging, etc., used .....	\$1,000.. 14 182 907
Resales .....	\$1,000.. 1 795 251
Purchased fuels .....	\$1,000.. 95 429
Purchased electricity .....	\$1,000.. 188 708
Contract work .....	\$1,000.. 49 530
Quantity of electricity purchased for heat and power .....	1,000 kWh.. 3 009 376
Quantity of electricity generated less sold for heat and power .....	1,000 kWh.. 8 586
Total value of shipments .....	\$1,000.. 24 181 778
Primary products value of shipments .....	\$1,000.. 18 929 180
Secondary products value of shipments .....	\$1,000.. 3 073 065
Total miscellaneous receipts .....	\$1,000.. 2 179 533
Value of resales .....	\$1,000.. 2 145 497
Contract receipts .....	\$1,000.. 1 368
Other miscellaneous receipts .....	\$1,000.. 32 668
Primary products specialization ratio .....	percent.. 86
Value of primary products shipments made in all industries .....	\$1,000.. 20 858 213
Value of primary products shipments made in this industry .....	\$1,000.. 18 929 180
Value of primary products shipments made in other industries .....	\$1,000.. 1 929 033
Coverage ratio .....	percent.. 91
Value added .....	\$1,000.. 7 935 299
Total inventories, beginning of year .....	\$1,000.. 572 240
Finished goods inventories .....	\$1,000.. 299 230
Work-in-process inventories .....	\$1,000.. 19 133
Materials and supplies inventories .....	\$1,000.. 253 877
Total inventories, end of year .....	\$1,000.. 626 465
Finished goods inventories .....	\$1,000.. 364 388
Work-in-process inventories .....	\$1,000.. 19 321
Materials and supplies inventories .....	\$1,000.. 242 756
Gross value of depreciable assets (acquisition costs) at beginning of year .....	\$1,000.. 5 417 901
Total capital expenditures (new and used) .....	\$1,000.. 584 277
Buildings and other structures (new and used) .....	\$1,000.. 129 517
Machinery and equipment (new and used) .....	\$1,000.. 454 760
Automobiles, trucks, etc., for highway use .....	\$1,000.. 42 080
Computers and peripheral data processing equipment .....	\$1,000.. 20 560
All other expenditures for machinery and equipment .....	\$1,000.. 392 120
Total retirements .....	\$1,000.. 269 965
Gross value of depreciable assets at end of year .....	\$1,000.. 5 732 213
Depreciation charges during year .....	\$1,000.. 381 989
Total rental payments .....	\$1,000.. 206 323
Buildings and other structures .....	\$1,000.. 74 388
Machinery and equipment .....	\$1,000.. 131 935
Total other expenses <sup>4</sup> .....	\$1,000.. 1 200 039
Response coverage ratio <sup>5</sup> .....	percent.. 91
Repair and maintenance services of buildings and/or machinery <sup>4</sup> .....	\$1,000.. 202 266
Communications services <sup>4</sup> .....	\$1,000.. 21 469
Legal services <sup>4</sup> .....	\$1,000.. 9 865
Accounting, auditing, and bookkeeping services <sup>4</sup> .....	\$1,000.. 5 284
Advertising and promotional services <sup>4</sup> .....	\$1,000.. 93 025
Expensed computer hardware and supplies and purchased computer services <sup>4</sup> .....	\$1,000.. 9 188
Refuse removal (including hazardous waste) services <sup>4</sup> .....	\$1,000.. 62 684
Management consulting and administrative services <sup>4</sup> .....	\$1,000.. 10 950
Taxes and license fees <sup>4</sup> .....	\$1,000.. 54 889
All other expenses <sup>4</sup> .....	\$1,000.. 730 419

<sup>1</sup>For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Based on Annual Survey of Manufactures (ASM) sample data.

<sup>5</sup>A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 4. Industry Statistics by Employment Size: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E <sup>1</sup>	All establishments <sup>2</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>3</sup>	Payroll (\$1,000)	Number <sup>3</sup>	Hours (1,000)	Wages (\$1,000)				
311511, Fluid milk manufacturing											
All establishments .....	1	524	55 354	2 158 118	30 136	63 848	1 076 812	7 935 299	16 311 825	24 181 778	584 277
Establishments with—											
1 to 4 employees .....	9	90	185	6 512	111	194	3 181	22 049	43 008	65 058	1 933
5 to 9 employees .....	8	29	192	7 343	103	221	3 587	23 734	54 819	78 722	4 620
10 to 19 employees .....	6	34	437	16 553	220	486	7 958	51 693	125 367	176 931	3 762
20 to 49 employees .....	3	65	2 223	75 512	1 367	2 745	43 196	353 985	812 040	1 162 248	43 154
50 to 99 employees .....	1	93	6 625	254 400	4 028	8 426	142 482	1 156 703	2 518 415	3 682 694	74 567
100 to 249 employees .....	1	158	25 535	988 761	15 204	32 688	546 466	3 862 921	7 789 347	11 593 022	294 851
250 to 499 employees .....	—	46	14 961	602 141	7 056	14 830	258 524	1 877 378	3 525 369	5 404 096	129 594
500 to 999 employees .....	—	9	5 196	206 896	2 047	4 258	71 418	586 836	1 443 460	2 019 007	31 796
1,000 to 2,499 employees .....	—	—	—	—	—	—	—	—	—	—	—
2,500 employees or more .....	—	—	—	—	—	—	—	—	—	—	—
Administrative records <sup>4</sup> .....	9	132	923	34 951	507	1 061	16 947	114 061	253 327	367 388	10 972

<sup>1</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

<sup>2</sup>Includes establishments with payroll at any time during the year.

<sup>3</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

<sup>4</sup>Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

**Table 5. Industry Statistics by Primary Product Class Specialization: 2002**

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments <sup>1</sup>	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number <sup>2</sup>	Payroll (\$1,000)	Number <sup>2</sup>	Hours (1,000)	Wages (\$1,000)				
311511	Fluid milk manufacturing.....	524	55 354	2 158 118	30 136	63 848	1 076 812	7 935 299	16 311 825	24 181 778	584 277
3115111	Bulk fluid milk and cream .....	40	4 100	160 829	2 667	5 591	97 629	714 199	2 164 130	2 874 007	63 121
3115115	Packaged fluid milk and related products, including cartons, bottles, cans, and dispenser cans, except U.H.T. ....	271	43 452	1 696 244	22 427	47 439	805 952	5 569 593	12 045 476	17 549 680	398 000
3115117	Cottage cheese (including bakers', pot, and farmers' cheese) .....	11	1 079	41 335	789	1 679	26 852	201 935	299 856	502 304	10 986
311511A	Yogurt, except frozen .....	16	2 402	99 639	1 641	3 612	59 806	787 400	645 053	1 428 763	63 124
311511D	Perishable dairy product substitutes.....	17	1 516	59 589	1 022	2 137	32 835	297 319	512 549	814 139	22 664
311511G	Other packaged milk products.....	4	630	21 037	397	891	12 486	124 677	116 404	247 350	4 672

<sup>1</sup>Includes establishments with payroll at any time during the year.

<sup>2</sup>Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. **Products Statistics: 2002 and 1997**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
311511	Fluid milk manufacturing .....	2002.. N	X	X	20 858 213
	1997.. N		X	X	19 468 685
3115111	Bulk fluid milk and cream .....	2002.. N	X	X	3 683 205
	1997.. N		X	X	3 115 437
31151111	Fluid whole milk, bulk sales .....	2002.. N	X	X	1 785 830
	1997.. N		X	X	1 665 606
311511111	Fluid whole milk, bulk sales .....	2002.. 86	X	S	1 785 830
	1997.. 114		X	11 433.5	1 665 606
31151112	Other bulk fluid milk and cream .....	2002.. N	X	X	1 889 341
	1997.. N		X	X	1 427 104
3115111221	Fluid skim milk, bulk sales .....	2002.. 25	X	S	352 870
	1997.. 41		X	946.9	186 627
3115111231	Fluid cream and buttermilk, bulk sales .....	2002.. 115	X	S	1 320 647
	1997.. 181		X	P2 255.8	1 094 280
3115111241	Other bulk fluid milk and cream (eggnog, lowfat, etc.) .....	2002.. 21	X	P646.6	215 824
	1997.. 31		X	9432.8	146 197
3115111Y	Bulk fluid milk and cream, nsk .....	2002.. N	X	X	8 034
	1997.. N		X	X	22 727
3115111YV	Bulk fluid milk and cream, nsk .....	2002.. N	X	X	8 034
	1997.. N		X	X	22 727
3115115	Packaged fluid milk and related products, including cartons, bottles, cans, and dispenser cans, except U.H.T. ....	2002.. N	X	X	12 184 178
	1997.. N		X	X	N
31151151	Fluid whole milk, packaged, except U.H.T. ....	2002.. N	X	X	4 579 018
	1997.. N		X	X	N
311511511	Fluid whole milk, packaged, except U.H.T. ....	2002.. 116	X	S	4 579 018
	1997.. N		X	N	N
31151152	Lowfat milk, packaged, except U.H.T. ....	2002.. N	X	X	4 173 651
	1997.. N		X	X	N
311511521	Lowfat milk, packaged, except U.H.T. ....	2002.. 106	X	8 138.8	4 173 651
	1997.. N		X	N	N
31151153	Skim milk, packaged, except U.H.T. ....	2002.. N	X	X	1 395 292
	1997.. N		X	X	N
311511531	Skim milk, packaged, except U.H.T. ....	2002.. 101	X	S	1 395 292
	1997.. N		X	N	N
31151154	All other packaged fluid milk and related products, including cartons, bottles, cans, and dispenser cans .....	2002.. N	X	X	1 889 048
	1997.. N		X	X	N
3115115441	Heavy cream, packaged (whipping cream containing 36 percent butterfat or more) .....	2002.. 59	X	S	351 328
	1997.. N		X	N	N
3115115451	Light cream, packaged (coffee cream containing less than 36 percent butterfat) .....	2002.. 31	X	S	184 077
	1997.. N		X	N	N
3115115461	Sour cream, unflavored, packaged .....	2002.. 64	X	S	743 553
	1997.. N		X	N	N
3115115471	Half and half, packaged .....	2002.. 60	X	9448.9	459 575
	1997.. N		X	N	N
3115115481	Whipped topping, butterfat base, packaged .....	2002.. 13	X	S	150 515
	1997.. N		X	N	N
3115115Y	Packaged fluid milk and related products, including cartons, bottles, cans and dispenser cans, except U.H.T. nsk .....	2002.. N	X	X	147 169
	1997.. N		X	X	N
3115115YV	Packaged fluid milk and related products, including cartons, bottles, cans and dispenser cans, except U.H.T. nsk .....	2002.. N	X	X	147 169
	1997.. N		X	X	N
3115117	Cottage cheese (including bakers', pot, and farmers' cheese) .....	2002.. N	X	X	770 882
	1997.. N		X	X	720 202
31151171	Cottage cheese (including bakers', pot, and farmers' cheese) .....	2002.. N	X	X	743 775
	1997.. N		X	X	708 721
311511711	Cottage cheese (including bakers', pot, and farmers' cheese), manufactured and creamed in same establishment .....	2002.. 39	X	730.6	623 011
	1997.. 66		X	668.2	603 866
3115117121	Cottage cheese (including bakers', pot, and farmers' cheese), manufactured in same plant, sold as curd (not creamed) .....	2002.. 13	X	S	75 359
	1997.. 13		X	67.0	72 517
3115117131	Cottage cheese (including bakers', pot, and farmers' cheese), creamed in same plant from purchased curd .....	2002.. 7	X	S	45 405
	1997.. 8		X	P32.8	32 338
3115117Y	Cottage cheese (including bakers', pot, and farmers' cheese), nsk .....	2002.. N	X	X	27 107
	1997.. N		X	X	11 481
3115117YV	Cottage cheese (including bakers', pot, and farmers' cheese), nsk .....	2002.. N	X	X	27 107
	1997.. N		X	X	11 481
311511A	Yogurt, except frozen .....	2002.. N	X	X	1 438 245
	1997.. N		X	X	1 334 927
311511A1	Yogurt, except frozen .....	2002.. N	X	X	1 360 903
	1997.. N		X	X	1 217 336
311511A11	Regular and lowfat yogurt, except frozen .....	2002.. 43	X	S	1 128 250
	1997.. 38		X	1 297.7	1 023 329
311511A121	Nonfat yogurt, except frozen .....	2002.. 22	X	S	232 653
	1997.. 20		X	272.9	194 007
311511AY	Yogurt, except frozen, nsk .....	2002.. N	X	X	77 342
	1997.. N		X	X	117 591
311511AYV	Yogurt, except frozen, nsk .....	2002.. N	X	X	77 342
	1997.. N		X	X	117 591
311511D	Perishable dairy product substitutes .....	2002.. N	X	X	768 337
	1997.. N		X	X	477 766
311511D1	Perishable dairy product substitutes .....	2002.. N	X	X	738 537
	1997.. N		X	X	477 309
311511D11	Perishable flavored dip substitutes .....	2002.. 10	X	S	104 559
	1997.. 9		X	40.9	40 523
311511D121	Perishable whipped topping, nonbutterfat base (including pressure can type) .....	2002.. 10	X	P40.8	47 637
	1997.. 16		X	P26.2	28 960

See footnotes at end of table.

Table 6a. **Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
311511	Fluid milk manufacturing—Con.				
311511D	Perishable dairy product substitutes—Con.				
311511D1	Perishable dairy product substitutes—Con.				
311511D131	Perishable coffee whitener substitutes ..... mil qt. .2002..	16	X	<sup>q</sup> 214.5	375 642
	..... 1997..	23	X	S	244 462
311511D141	Perishable sour cream substitutes ..... 2002..	9	X	X	14 291
	..... 1997..	10	X	X	11 274
311511D151	Perishable flavored milk drink substitutes (chocolate drink, etc.) ..... mil qt. .2002..	15	X	S	69 616
	..... 1997..	21	X	<sup>q</sup> 111.9	57 757
311511D161	Other perishable dairy product substitutes ..... 2002..	9	X	X	126 792
	..... 1997..	18	X	X	94 333
311511DY	Perishable dairy product substitutes, nsk ..... 2002..	N	X	X	29 800
	..... 1997..	N	X	X	457
311511DYWV	Perishable dairy product substitutes, nsk ..... 2002..	N	X	X	29 800
	..... 1997..	N	X	X	457
311511G	Other packaged milk products ..... 2002..	N	X	X	1 467 528
	..... 1997..	N	X	X	1 054 079
311511G1	Other packaged milk products ..... 2002..	N	X	X	1 421 384
	..... 1997..	N	X	X	1 050 772
311511G111	Flavored sour cream dips ..... mil qt. .2002..	26	X	S	131 363
	..... 1997..	40	X	S	120 344
311511G121	Flavored milks (chocolate milk, etc.) ..... mil qt. .2002..	70	X	<sup>P1</sup> 279.8	885 704
	..... 1997..	122	X	<sup>q</sup> 985.2	620 137
311511G131	Other milk products (eggnog, buttermilk, acidophilus milk, reconstituted milk, etc.) ..... mil qt. .2002..	69	X	S	404 317
	..... 1997..	100	X	<sup>P453.7</sup>	310 291
311511GY	Other packaged milk products, nsk ..... 2002..	N	X	X	46 144
	..... 1997..	N	X	X	3 307
311511GYWV	Other packaged milk products, nsk ..... 2002..	N	X	X	46 144
	..... 1997..	N	X	X	3 307
311511W	Fluid milk manufacturing, nsk, total ..... 2002..	N	X	X	545 838
	..... 1997..	N	X	X	298 236
311511WY	Fluid milk manufacturing, nsk, total ..... 2002..	N	X	X	545 838
	..... 1997..	N	X	X	298 236
311511WYWW	Fluid milk manufacturing, nsk, for nonadministrative-record establishments ..... 2002..	N	X	X	208 963
	..... 1997..	N	X	X	201 311
311511WYWY	Fluid milk manufacturing, nsk, for administrative-record establishments ..... 2002..	N	X	X	336 875
	..... 1997..	N	X	X	96 925

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p–10 to 19 percent estimated; q–20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.



Table 6b. **Product Class Shipments for Selected States: 2002 and 1997**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3115111	Bulk fluid milk and cream	
	United States .....	2002.. 3 683 205
		1997.. 3 115 437
	California .....	2002.. 763 968
		1997.. 865 205
	Florida .....	2002.. 28 524
		1997.. 18 097
	Illinois .....	2002.. 60 257
		1997.. 50 253
	Iowa .....	2002.. 137 966
		1997.. 156 703
	Kentucky .....	2002.. 46 572
		1997.. 44 611
	Michigan .....	2002.. 76 661
		1997.. 65 395
	Minnesota .....	2002.. 452 552
		1997.. 277 806
	New Jersey .....	2002.. 88 612
		1997.. 61 049
	New York .....	2002.. 123 491
		1997.. 67 939
	North Carolina .....	2002.. 18 897
		1997.. 15 829
	Ohio .....	2002.. 134 583
		1997.. 87 708
	Oregon .....	2002.. 70 467
		1997.. 92 542
	Pennsylvania .....	2002.. 241 120
		1997.. 220 252
	Tennessee .....	2002.. 19 430
		1997.. 35 063
	Texas .....	2002.. 111 843
		1997.. 108 124
	Utah .....	2002.. 9 926
		1997.. 23 081
	Wisconsin .....	2002.. 421 324
		1997.. 412 165
3115115	Packaged fluid milk and related products, including cartons, bottles, cans, and dispenser cans, except U.H.T.	
	United States .....	2002.. 12 184 178
		1997.. N
	California .....	2002.. 1 500 256
		1997.. N
	Florida .....	2002.. 455 698
		1997.. N
	Illinois .....	2002.. 394 874
		1997.. N
	Iowa .....	2002.. 232 161
		1997.. N
	Kentucky .....	2002.. 304 936
		1997.. N
	Michigan .....	2002.. 513 545
		1997.. N
	Minnesota .....	2002.. 272 703
		1997.. N
	New Jersey .....	2002.. 513 269
		1997.. N
	New York .....	2002.. 726 030
		1997.. N
	North Carolina .....	2002.. 300 325
		1997.. N
	Ohio .....	2002.. 391 498
		1997.. N
	Oregon .....	2002.. 252 612
		1997.. N
	Pennsylvania .....	2002.. 679 420
		1997.. N
	Tennessee .....	2002.. 362 161
		1997.. N
	Texas .....	2002.. 1 095 668
		1997.. N
	Wisconsin .....	2002.. 251 410
		1997.. N
3115117	Cottage cheese (including bakers', pot, and farmers' cheese)	
	United States .....	2002.. 770 882
		1997.. 720 202
	California .....	2002.. 34 821
		1997.. 89 487
	Illinois .....	2002.. 44 289
		1997.. 59 077
	Iowa .....	2002.. 22 800
		1997.. 18 175
	New York .....	2002.. 189 037
		1997.. 181 297
	Ohio .....	2002.. 114 062
		1997.. 36 699
	Oregon .....	2002.. 8 117
		1997.. 14 982
	Tennessee .....	2002.. 13 686
		1997.. 8 383
	Texas .....	2002.. 31 853
		1997.. 20 730
	Wisconsin .....	2002.. 30 161
		1997.. 29 684
311511A	Yogurt, except frozen	

See footnotes at end of table.

Table 6b. **Product Class Shipments for Selected States: 2002 and 1997—Con.**

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by \*, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
311511A	Yogurt, except frozen—Con.	
	United States . . . . .	2002 . . 1 438 245
		1997 . . 1 334 927
	California . . . . .	2002 . . 459 416
		1997 . . 206 532
	Iowa . . . . .	2002 . . 9 083
		1997 . . N
	New York . . . . .	2002 . . 111 899
		1997 . . 115 912
	Oregon . . . . .	2002 . . 28 181
311511D		1997 . . 24 301
	Wisconsin . . . . .	2002 . . 63 436
		1997 . . N
	Perishable dairy product substitutes	
	United States . . . . .	2002 . . 768 337
		1997 . . 477 766
	California . . . . .	2002 . . 206 873
		1997 . . 142 892
	New York . . . . .	2002 . . 21 765
		1997 . . N
311511G		2002 . . 36 410
	North Carolina . . . . .	1997 . . N
	Ohio . . . . .	2002 . . 11 343
		1997 . . 9 409
	Pennsylvania . . . . .	2002 . . 16 984
		1997 . . N
	Texas . . . . .	2002 . . 115 009
		1997 . . N
	Other packaged milk products	
	United States . . . . .	2002 . . 1 467 528
		1997 . . 1 054 079
	California . . . . .	2002 . . 96 921
		1997 . . 74 773
	Illinois . . . . .	2002 . . 26 900
		1997 . . 26 408
	Iowa . . . . .	2002 . . 39 308
		1997 . . 56 696
	Michigan . . . . .	2002 . . 38 848
		1997 . . 34 257
	Minnesota . . . . .	2002 . . 35 098
		1997 . . 25 450
	New Jersey . . . . .	2002 . . 45 954
		1997 . . 6 274
	New York . . . . .	2002 . . 94 722
		1997 . . 51 471
	North Carolina . . . . .	2002 . . 36 510
		1997 . . 32 239
	Ohio . . . . .	2002 . . 101 938
		1997 . . 68 601
	Oregon . . . . .	2002 . . 17 537
		1997 . . 10 804
	Pennsylvania . . . . .	2002 . . 70 510
		1997 . . 41 152
	Tennessee . . . . .	2002 . . 46 989
		1997 . . 61 158
	Texas . . . . .	2002 . . 182 175
		1997 . . 62 991
	Utah . . . . .	2002 . . 26 164
		1997 . . 11 462

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

**Table 7. Materials Consumed by Kind: 2002 and 1997**

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
311511	Fluid milk manufacturing		
00900001	Total materials .....2002..	X	14 182 907
	.....1997..	X	13 694 229
11212000	Whole milk ..... mil cwt ..2002..	S	8 947 291
	.....1997..	P622.1	8 790 146
31151101	Fluid skim milk ..... mil cwt ..2002..	S	619 811
	.....1997..	Q52.4	642 487
31151103	Cream ..... mil cwt ..2002..	Q5.5	392 910
	.....1997..	Q6.4	390 102
31151200	Butter ..... mil lb ..2002..	D	D
	.....1997..	S	10 302
31151401	Condensed and evaporated milk ..... mil lb ..2002..	S	93 512
	.....1997..	Q177.6	90 553
31151407	Dry milk ..... mil lb ..2002..	Q113.3	107 703
	.....1997..	P149.3	153 852
31151301	Natural cheese (excluding cottage cheese) ..... mil lb ..2002..	S	8 151
	.....1997..	5.9	8 661
31152001	Ice cream mixes (excluding lowfat and nonfat) ..... mil gal ..2002..	S	43 049
	.....1997..	P16.2	40 123
31152003	Sherbet mix ..... mil gal ..2002..	D	D
	.....1997..	7	1 035
31152005	Ice cream mix, lowfat ..... mil gal ..2002..	S	13 213
	.....1997..	11.4	21 836
31152009	Ice cream mix, nonfat ..... mil gal ..2002..	S	1 029
	.....1997..	D	D
31152007	Yogurt mix ..... mil gal ..2002..	D	D
	.....1997..	S	10 930
31100019	Fats and oils, all types, purchased ..... mil lb ..2002..	Q61.6	22 144
	.....1997..	Q60.4	20 024
31122103	High fructose corn syrup (HFCS) (solids) ..... mil lb ..2002..	S	104 380
	.....1997..	P908.1	103 406
31122117	Crystalline fructose (dry fructose) ..... mil lb ..2002..	S	4 559
	.....1997..	17.0	4 073
31122119	Dextrose and corn syrup, including corn syrup solids (dry weight) ..... mil lb ..2002..	S	24 582
	.....1997..	P136.0	23 785
31131001	Sugar, cane and beet (sugar solids) ..... 1,000 s tons ..2002..	P242.5	99 054
	.....1997..	N	N
31151403	Whey (liquid, concentrated, and dried) and modified whey products ..... mil lb ..2002..	S	62 274
	.....1997..	P244.0	64 544
00190035	Casein and caseinates ..... mil lb ..2002..	Q8.6	13 910
	.....1997..	D	D
31132001	Chocolate (compounds, cocoa, chocolate liquor, coatings, chocolate flavoring, etc.) ..... mil lb ..2002..	S	58 045
	.....1997..	Q61.8	54 636
00190036	Flavorings (natural, imitation, etc.), excluding chocolate .....2002..	X	338 903
	.....1997..	X	334 655
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc. ....2002..	X	203 128
	.....1997..	X	195 813
001900A1	Packaging paper and plastics film, coated and laminated .....2002..	X	205 429
	.....1997..	X	247 045
001900A3	Bags (plastics, foil, and coated paper) .....2002..	X	27 287
	.....1997..	X	24 757
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes .....2002..	X	110 926
	.....1997..	X	49 192
32721301	Glass containers .....2002..	X	11 611
	.....1997..	X	2 974
32610028	Plastics containers (excluding bags) .....2002..	X	499 006
	.....1997..	X	N
32221001	Paperboard containers, boxes, and corrugated paperboard .....2002..	X	466 423
	.....1997..	X	495 779
33243101	Metal cans, lids, and ends .....2002..	X	35 172
	.....1997..	X	17 761
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	881 415
	.....1997..	X	1 230 529
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	734 655
	.....1997..	X	656 052

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.